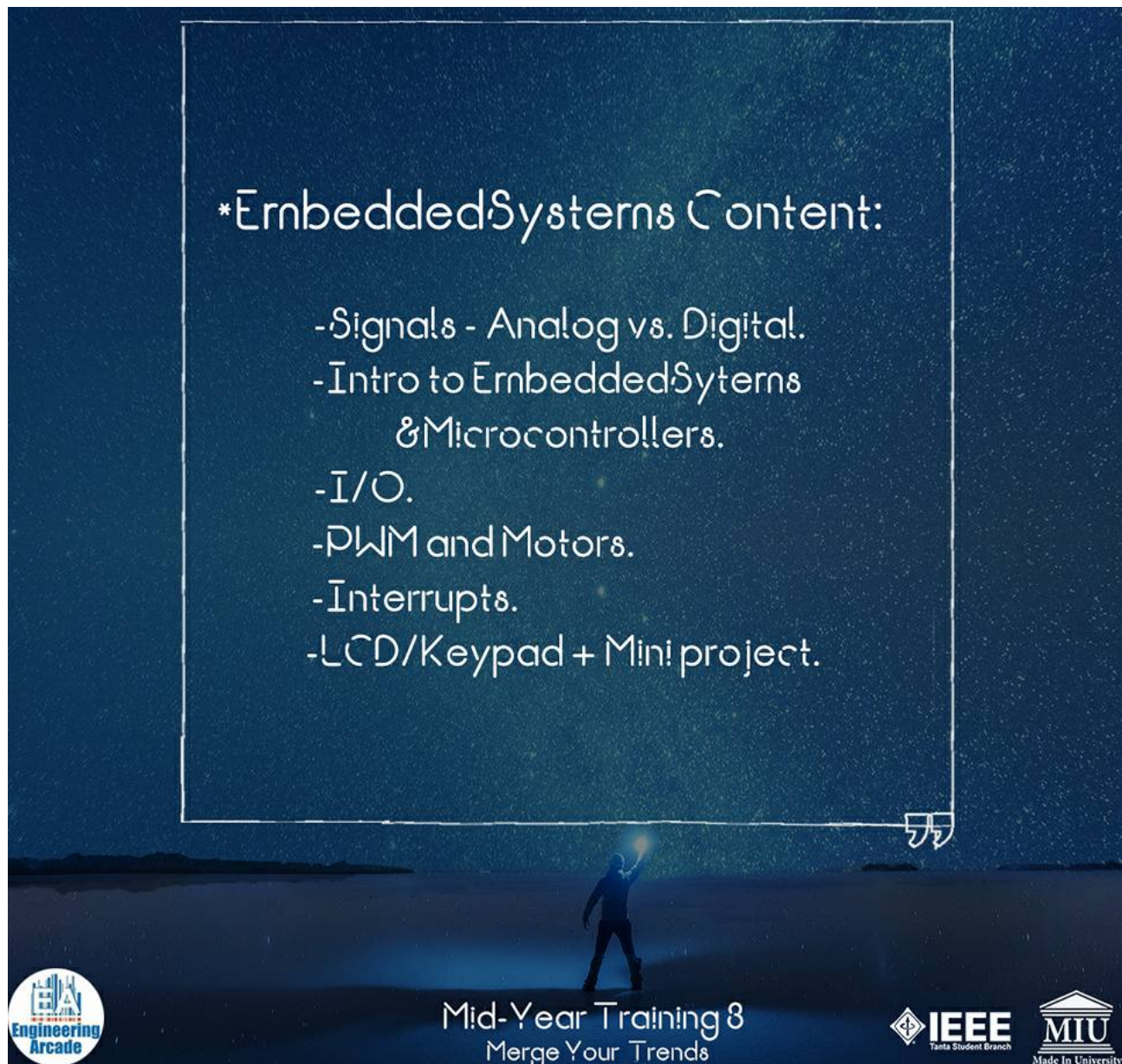


Some guidelines for Embedded Systems (Mid Year Training 2018 | IEEE Tanta SB):

The promised content:



\*Embedded Systems Content:

- Signals - Analog vs. Digital.
- Intro to Embedded Systems & Microcontrollers.
- I/O.
- PWM and Motors.
- Interrupts.
- LCD/Keypad + Mini project.

Engineering Arcade

Mid-Year Training 8  
Merge Your Trends

IEEE  
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MIU  
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To be retrieved:

- Pull-up resistors and how to activate them on ATmega328/P when input.
- External Interrupts.

For further learning:

- Analog to Digital Converter (ADC).
- Analog Comparator.
- Communication Protocols:
- Serial Communication.
  - USART.
  - SPI.
  - I2C.
- Embedded C: <https://goo.gl/tR9ty7>
- Real Time Operating System (RTOS): <https://goo.gl/8ncn3g>
- Raspberry PI: <https://goo.gl/eX2h5f> , <https://goo.gl/wqcv5i>
- Linux: <https://goo.gl/eX2h5f> , <https://goo.gl/4ABRn8>
- Python: <https://goo.gl/pTVJRA>

Some Learning Sources:

- Shape the world “Introduction”:  
<https://goo.gl/UbXfNQ>  
<https://goo.gl/dXLfu0>
- Introduction to Embedded Systems: <https://goo.gl/R8htVp>
- Basic Electronics (Walid Issa): <https://goo.gl/mXj98k>
- AVR Mazidi Book.